Applicant: Bradley & Cao Docket: AUS920010743US1 Sheet 1 of 10 Contact: J. Lally 512.428.9870

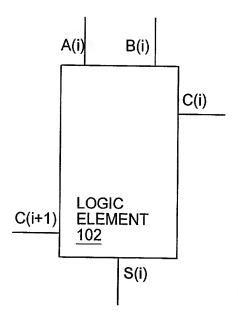


FIG. 1

C(i)	B(i)	A(i)	S(i)	P(i)	PC *	G(i)	K(i)	C(i+1)	C'(i+1)
0	0	0	0	0	0	0	1	0	1
0	0	1	1	1	0	0	0	0	1
0	1	0	1	1	0	0	0	0	1
0	1	1	0	0	0	1	0	1	0
1	0	0	1	0	0	0	1	0	1
1	0	1	0	1	1	0	0	1	0
1	1	0	0	1	1	0	0	1	0
1	1	1	1	0	0	1	0	1	0
PC=P(i)C(i-1)									

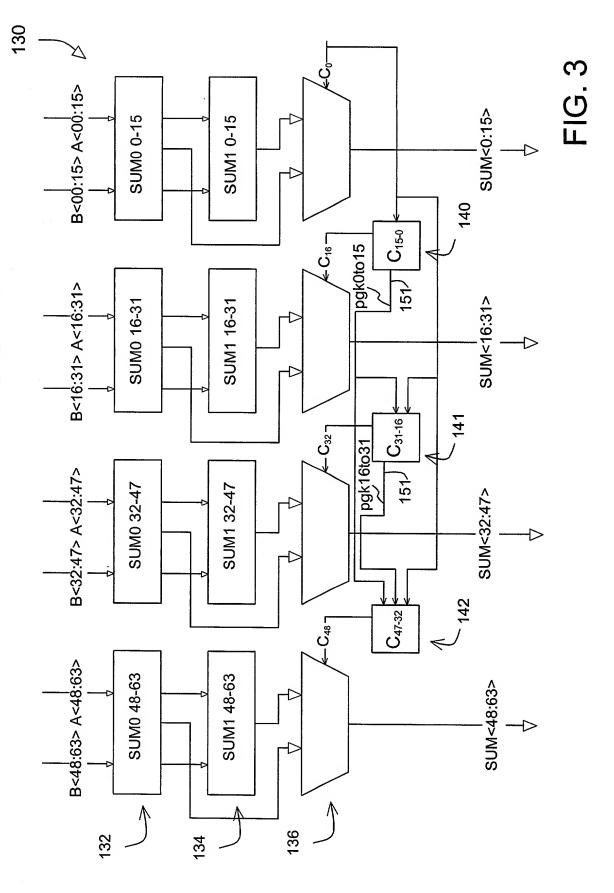
120

FIG. 2A

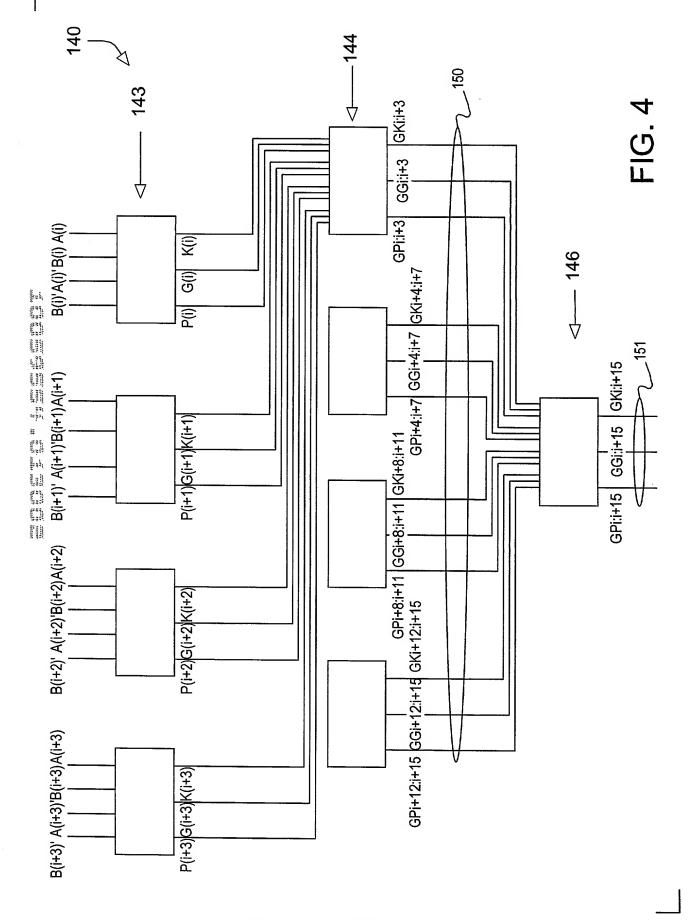
CARRY=A'BC+AB'C+ABC'+ABC
=C(A'B+AB')+AB(C'+C)
=C(A'B+AB')+AB
=PC+G
where P=A XOR B and G=AB

CARRY' =A'B'C'+AB'C'+A'BC'+A'B'C =A'B'(C'+C)+C'(AB'+A'B) =A'B'+C'(AB'+A'B) =PC'+K where P=A XOR B and K=A'B'

FIG. 2B



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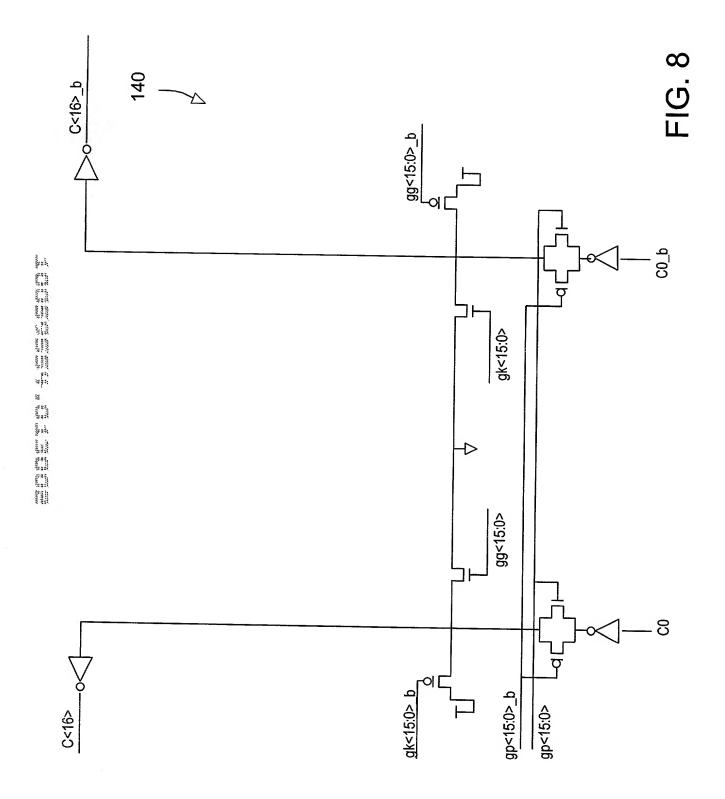


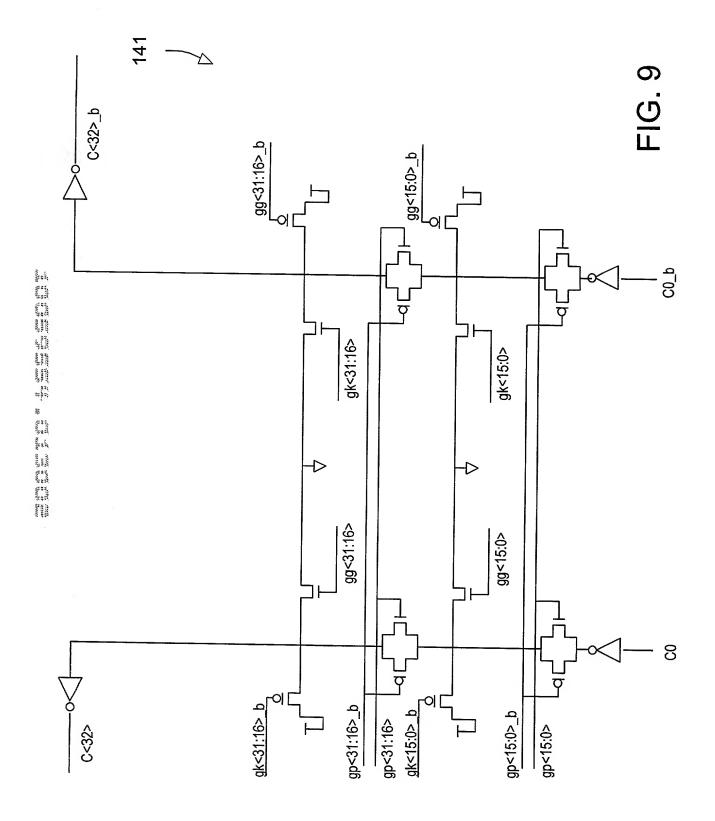
—(<u>()</u> <u>(i)</u> —(<u>⊕</u> carry=pc+g carry'=pc'+k <u>.</u> FIG. 5 <u>\$</u> GP3t0=P(3) AND P(2) AND P(1) AND P(0) GG3t0=G(3) OR (P(3) AND (G(2) OR (P(2) AND(G(1) OR (P(1) AND G(0))))) GK3t0=K(3) OR (P(3) AND (K(2) OR (P(2) AND(K(1) OR (P(1) AND K(0))))) B(i+1) 144 G(i+1) er gereicht gestell gestellt erfelle Gestellt eine Gestellt gestel B(i+1) P(i+1) A(i+1)' K(i+1) A(i+1) B(i+2)' G(i+2) A(i+2) A(i+2)' B(i+2) P(i+2) K(i+2) A(i+3) A(i+3)' B(i+3) B(i+3)' G(i+3) gg3t0 P(i+3) K(i+3) Applicant: Bradley and Cao Docket: AUS920010743US1 Sheet 4 of 10 Contact: J. Lally 512.428.9870

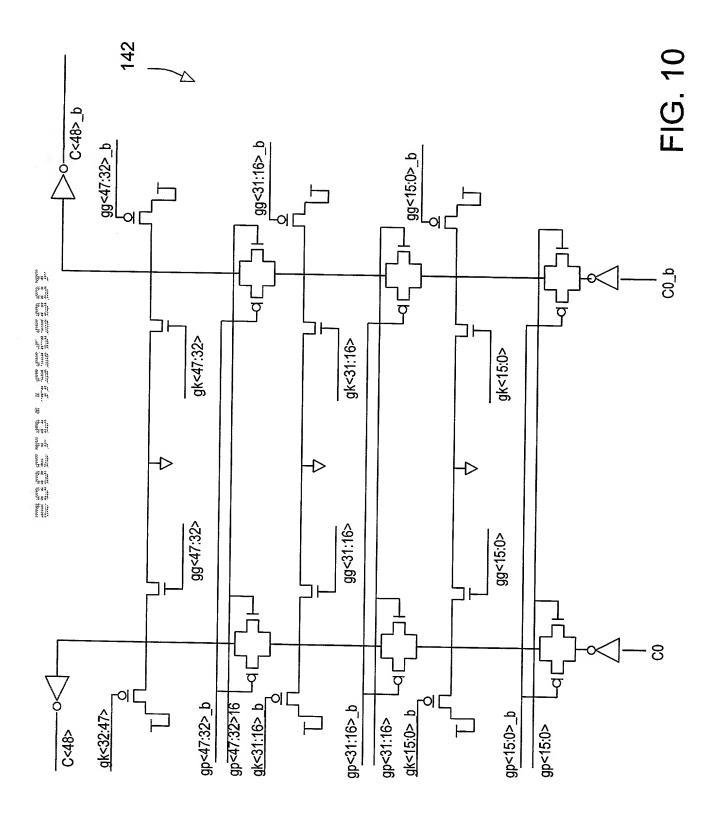
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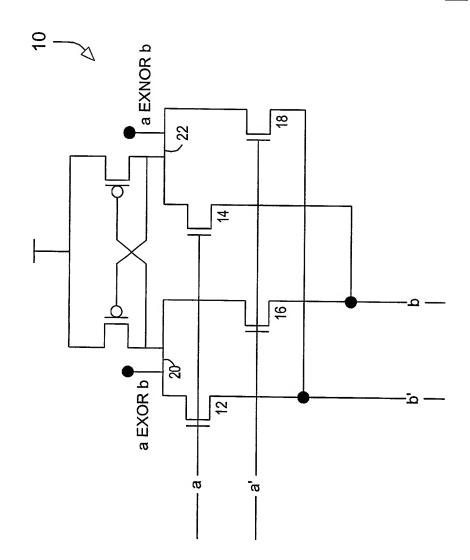


FIG. 11
PRIOR ART